

ABSTRACT OF THE DISCLOSURE

5 A storage apparatus is operable as primary in a remote
copy pair and comprises a remote copy component operable to
establish a remote copy relationship between said primary
and a secondary; a copy component operable at the primary
to create a copy for download onto a portable physical
storage medium for offline transport to the secondary for
upload; a synchronization component for synchronizing data
10 at said secondary with data at said primary using an online
link in response to a request for synchronization from the
secondary; a metadata component operable to store a dirty
state indicator of a portion of a storage space at the
primary after establishment of the remote copy relationship
15 at the primary; and the metadata component being operable
to limit synchronization at the secondary to the portion of
storage having a dirty state indicator at the primary.